

Bucknell, et al.
Appl. No. 10/634,237
Filed August 5, 2003
Amendment dated April 30, 2004
Reply to Office action of March 23, 2004

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An intercooler for a vehicle engine incorporating an exhaust gas turbocharger and an air conditioning system, said intercooler comprising:

a charge air cooler loop employing a glycol-water coolant and including a low temperature reservoir, said charge air cooler loop operatively connected to cool heated, pressurized air from said turbocharger before it flows into said vehicle engine; and
an air conditioning system bypass loop operatively connecting said air conditioning system to said charge air cooler loop
where said charge air cooler loop and said air conditioning system bypass loop are configured so that said air conditioning system bypass loop operates during vehicle braking to cool said glycol-water coolant to charge said low temperature reservoir. (Page 9, lines 1-3 claim 8)

2. (cancelled)
3. (cancelled)
4. (cancelled)
5. (cancelled)
6. (cancelled)
7. (cancelled)
8. (cancelled)

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9. (currently amended) An intercooler for a vehicle engine incorporating a supercharger and an air conditioning system, said intercooler comprising:

a charge air cooler loop employing a glycol-water coolant and including a low temperature reservoir, said charge air cooler loop operatively connected to cool heated, pressurized air from said supercharger before it flows into said vehicle engine; and
an air conditioning system bypass loop operatively connecting said air conditioning system to said charge air cooler loop
where said charge air cooler loop and said air conditioning system bypass loop are configured so that said air conditioning system bypass loop operates during vehicle braking to cool said glycol-water coolant to charge said low temperature reservoir.

10. (cancelled)
11. (cancelled)
12. (cancelled)
13. (cancelled)
14. (cancelled)
15. (cancelled)
16. (cancelled)

Bucknell, et al.
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17. (currently amended) An intercooler for a naturally aspirated vehicle engine incorporating a manifold and an air conditioning system, said charge air intercooler comprising:

a charge air cooler loop employing a glycol-water coolant and including a low temperature reservoir, said charge air cooler loop operatively connected to cool air flowing into said manifold; and

an air conditioning system bypass loop operatively connecting said air conditioning system to said charge air cooler loop _____

where said charge air cooler loop and said air conditioning system bypass loop are configured so that said air conditioning system bypass loop operates during vehicle braking to cool said glycol-water coolant to charge said low temperature reservoir.

18. (cancelled)

19. (cancelled)

20. (cancelled)